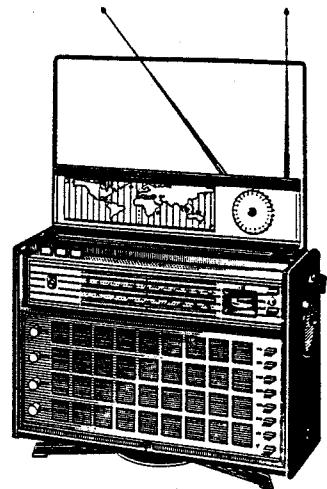


# PHILIPS Service

## RADIO 22RL798/15



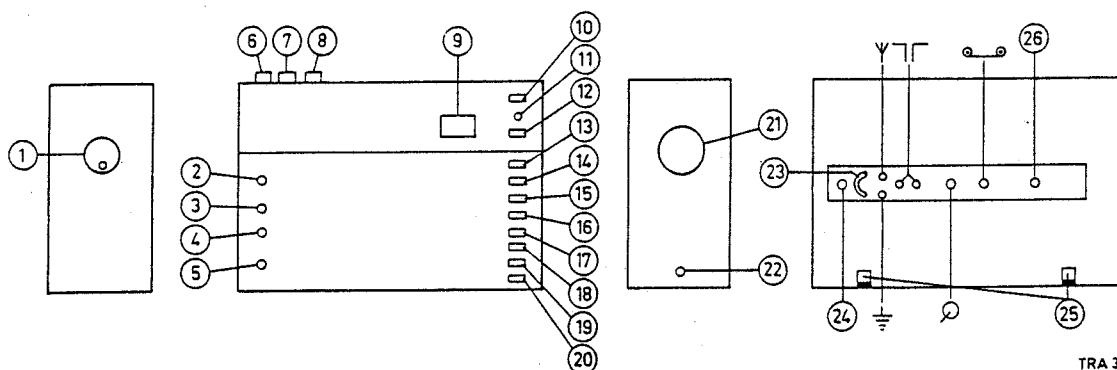
1	Tuning FM	S308/S311	10	PU switch	SK-K	18	MW switch	SK-E
2	Volume control	R415	11	On-off indication		19	LW switch	SK-F
3	High notes	R414	12	On-off switch	SK-P	20	Aerial switch	SK-G
4	Low notes	R416	13	FM switch	SK-H	21	Tuning AM	C410
5	Fine tuning	R413	14	SW1 switch	SK-A	22	Car aerial	
6	AFC	SK-L	15	SW2 switch	SK-B	23	Aerial selector switch	SK-R
7	Battery check	SK-M	16	SW3 switch	SK-C	24	External supply	
8	Scale illumination	SK-N	17	SW4 switch	SK-D	25	Lock of rear cover	
9	Tuning indicator	Ind.				26	Earphone connection	

### SPECIFICATION

Loudspeaker	4 Ω
IF-AM	470 kHz
IF-FM	10,7 MHz
Battery voltage	9 V (6x1,5 V)
Consumption (without signal)	21 mA (AM) 22 mA (FM)
Output	1 W
Dimensions	370x255x120 mm

### WAVE RANGES

LW	: 150	- 415 kHz	( 2000	- 725	m)
MW	: 517	- 1622 kHz	( 580	- 185	m)
SW4	: 1,6	- 4,2 MHz	( 187	- 71,4	m)
SW3	: 4,2	- 8 MHz	( 71,4	- 37,5	m)
SW2	: 8	- 16 MHz	( 37,5	- 18,75	m)
SW1	: 16	- 27 MHz	( 18,75	- 11,1	m)
FM	: 87,5	- 108 MHz			



TRA 3486

**COMBINED ELECTRONIC SERVICES LTD.**  
QUEENSWAY WADDON FACTORY ESTATE CROYDON CR9 4DR

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TELEX: 262308

Index: GS21889-CS21895

SERVICE INFORMATION									
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### The use of the aerials

Ferroceptor : is used for the reception of LW and MW. It is also used for determining the direction of LW and MW (sounding). If the ferroceptor axis, which is also the longitudinal axis of the apparatus, points in the direction of the transmitter the reception is minimal.

Frame aerial : is used for the reception of SW1-2-3-4. It is also used for determining the direction of SW1-2-3-4 (sounding). If the plane of the frame (the short axis of the apparatus) points in the direction of the transmitter the reception is minimal.

Outdoor aerial : is used for the reception of weak stations on LW, MW and SW1-2-3-4. When the outdoor aerial is used the ferroceptor should be switched off.

Car aerial : is used for the reception of FM, LW, MW and SW1-2-3-4. When it is used, SK-R, 2-3 should be interconnected for the reception of FM, whereas for the reception of LW and MW the ferroceptor should be switched off.

Dipole aerial : is used for the reception of FM, and, because of its working as a normal aerial, it can also be used to receive LW, MW and SW1-2-3-4. For reception of LW, MW and SW1-2-3-4, SK-R, 2-3 should be interconnected and the ferroceptor should be switched off.

Rod aerials : these are used to receive FM. If SK-R, 2-3 are interconnected they can also be used to receive SW1-2-3-4 and, if the ferroceptor is switched off, MW and LW can also be received.

### REMOVAL OF THE CABINET

#### Removing the back of the receiver

Remove the ornamental screw between the two telescopic aerial rods. Next, remove the battery lid. Unscrew the four screws A (see Fig. 1) Carefully lift the back in a slanting position.

#### Removing the battery holder

After having removed the back of the receiver, remove the six screws B, see Fig. 2. Slightly lift the battery holder and then remove it from the cabinet by carefully tilting it.

#### Removing the front (this can only be removed if the back has been removed)

Remove the four metal knobs (vol, high, low, fine tuning) by pulling them forwards. Loosen screw C and unscrew screws D, see Fig. 2. Two clamping springs prevent screws C from falling down. Carefully hinge the front up.

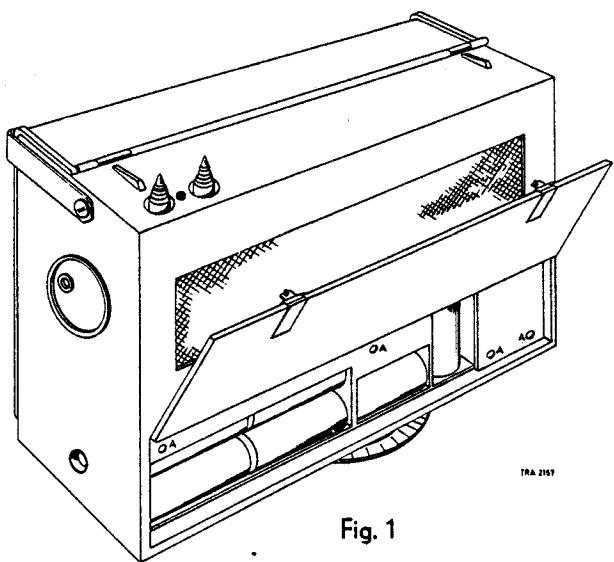


Fig. 1

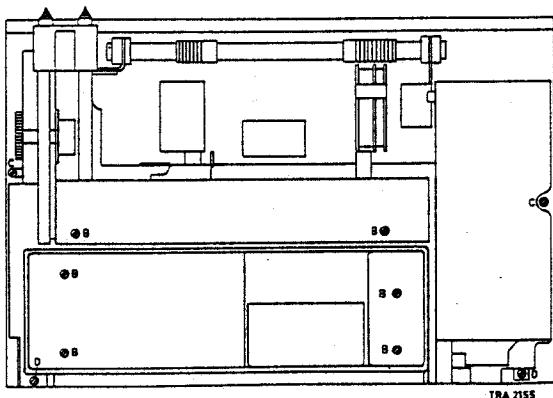
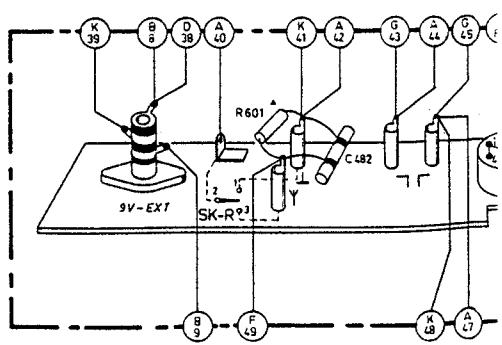
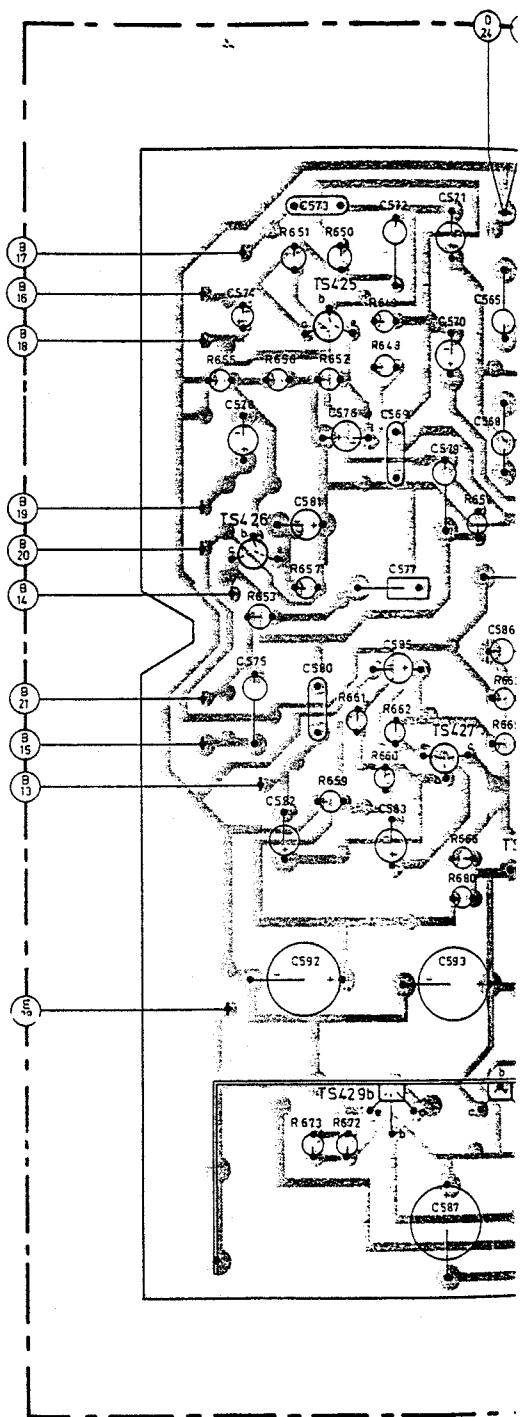
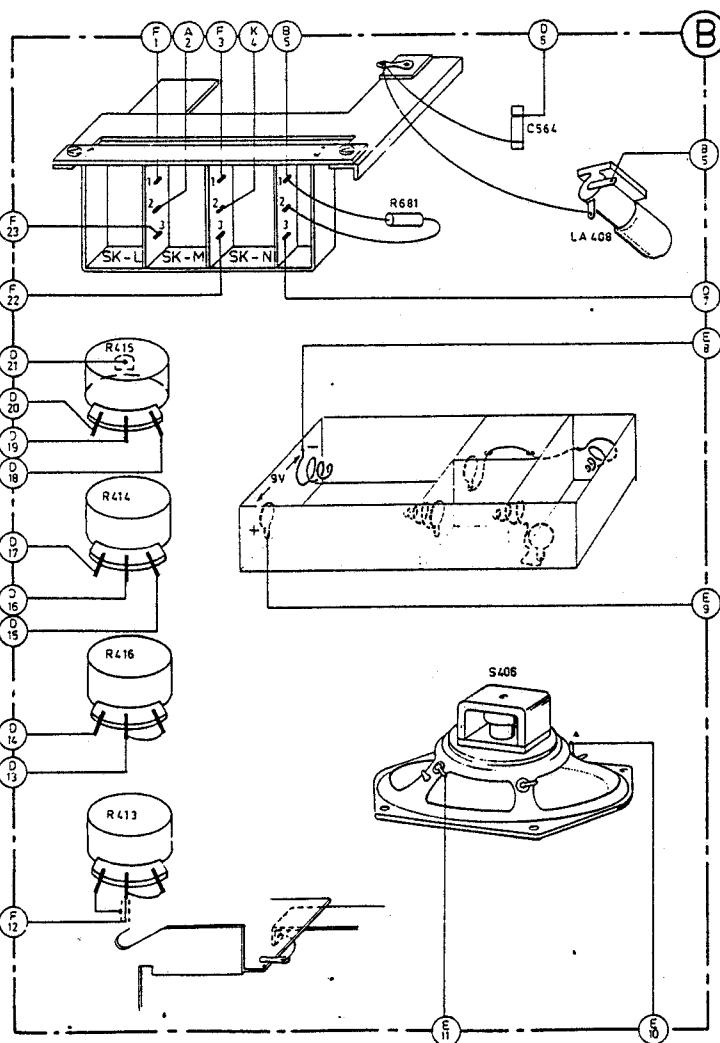
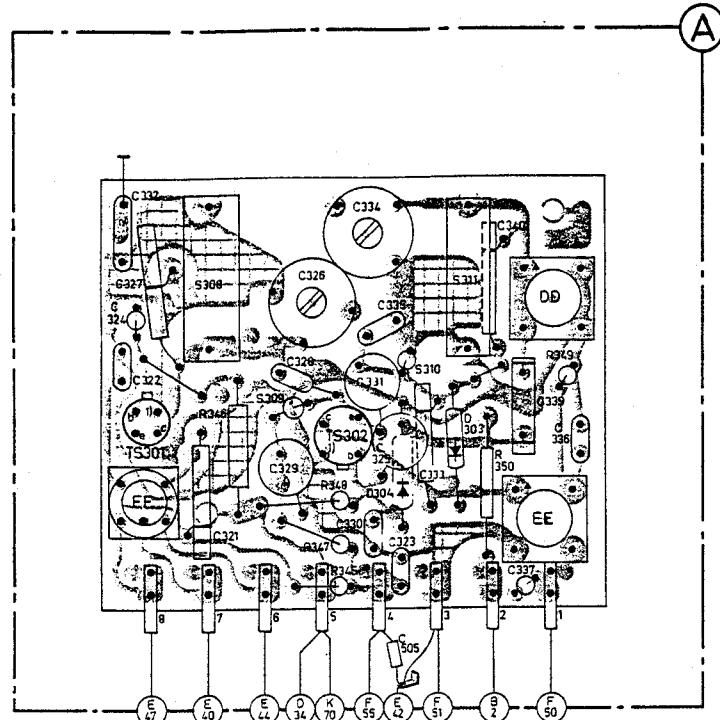
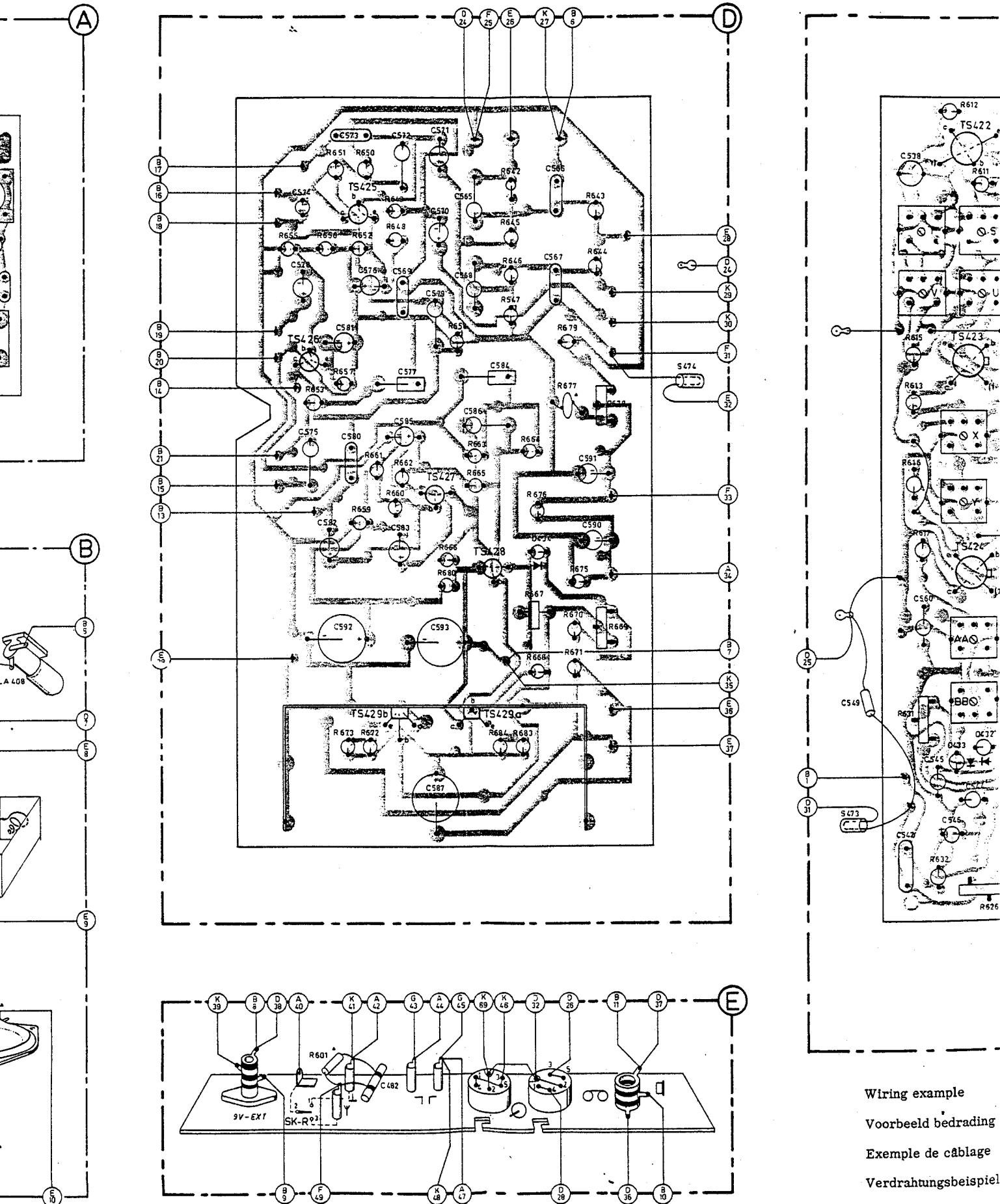


Fig. 2

S	FF	308	309	310.	311.	406	EE, DD.
C	332.322.324.327	321	329.328.326	303.324.321.325.325.323.323.	340.339.337.	306	
C				505	584		
R		346.	347.348	350.	349.		
R	413 + 416		345	681			





## Wiring example

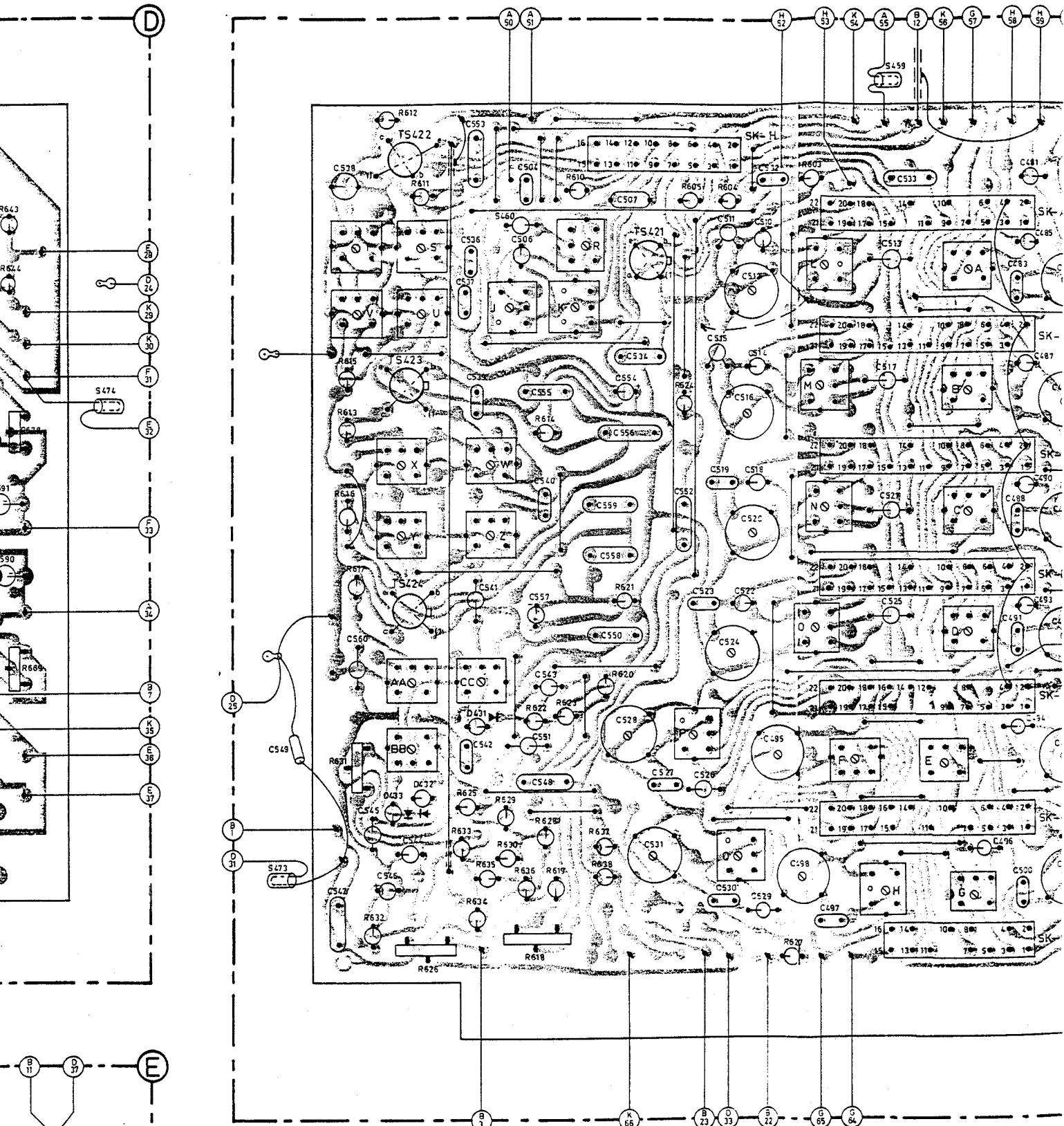
### Voorbeeld bedrading

### Exemple de câblage

### Verdrahtungsbeispiel

### Ejemplo de cableado

474. 473. T.Y. X Y SU AA BB W Z CC. J 480 K. R. P. Q. LMNO. F H 58 E ABC D G  
 538. 536. 537. 539. 504. 506. 555. 540. 507. 534. 554. 556. 552. 559. 510. 512. 512. 516. 519. 52. 513. 533. 517. 52.  
 549. 560. 544. 547. 541. 542. 551. 557. 543. 548. 556. 550. 526. 531. 522. 524. 495. 498. 497. 525. 496. 491. 494. 499. 50.  
 515. 616. 617. 613. 625. 616. 614. 621. 605. 624. 604. 603.  
 617. 631. 632. 626. 633. 636. 629. 630. 622. 511. 628. 619. 616. 623. 637. 638. 620. 627.



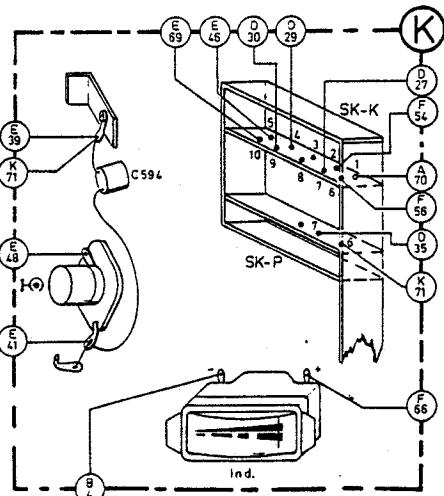
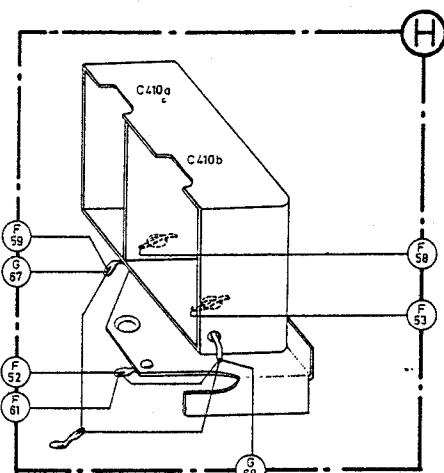
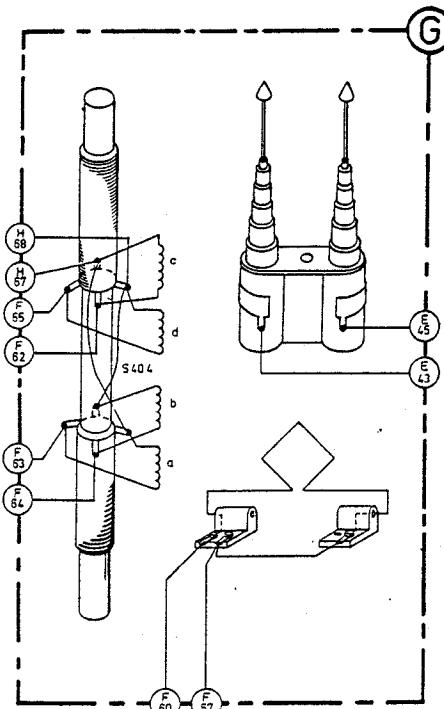
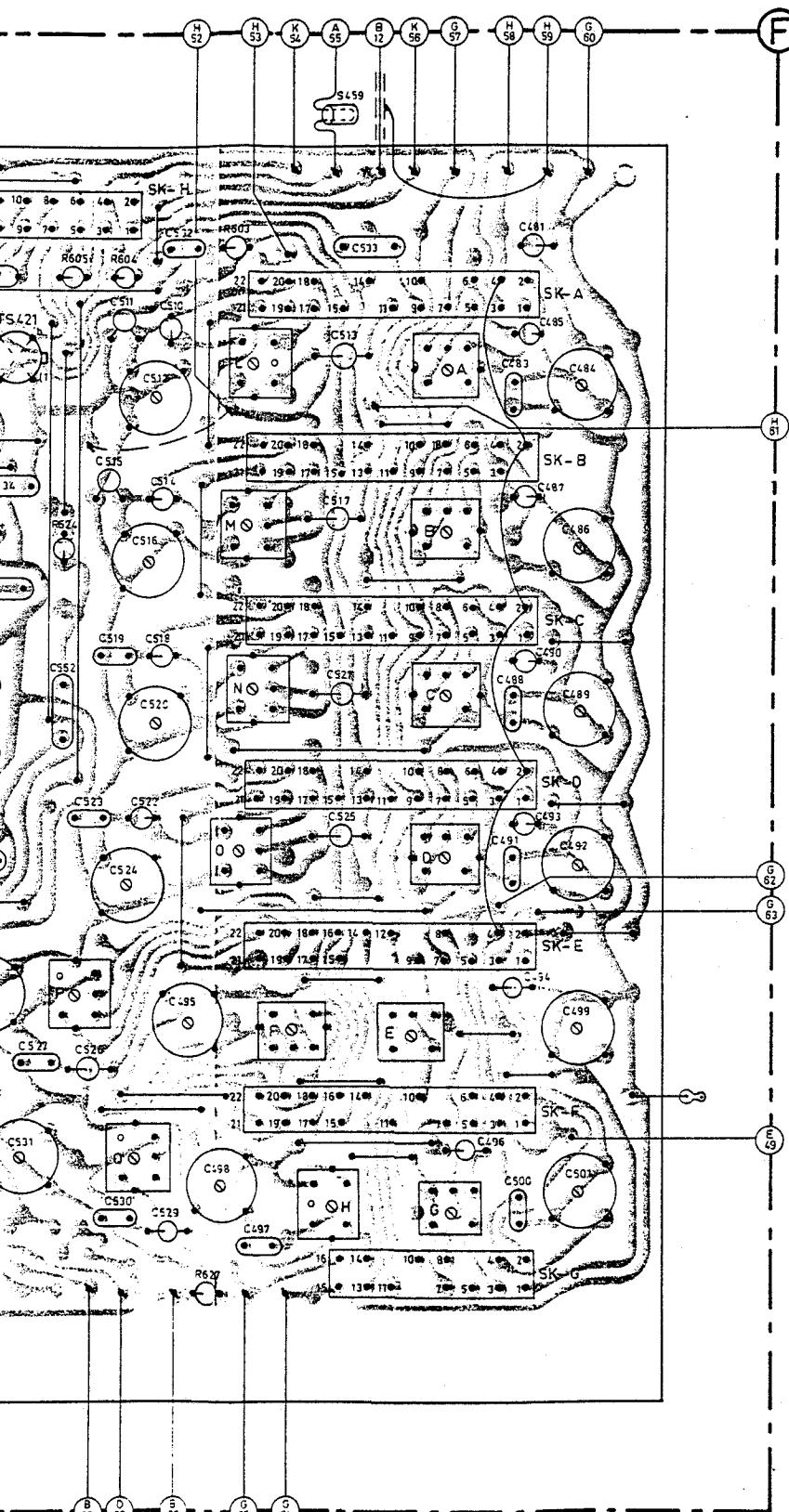
Wiring example : Wire F1 (mentioned under unit B) leads to unit F, and is then mentioned B1

Voorbeeld bedrading : Draad F1 (genoemd bij unit B) gaat naar unit F, en is daar B1 genoemd

Exemple de câblage : Le fil F1 (mentionné sous bloc B) va vers le bloc F, où il est indiqué sous B1

Verdrahtungsbeispiel : Draht F1 (bei Einheit B genannt) führt nach Einheit F und wird dort als B1 bezeichnet.

Ejemplo de cableado : El hilo **F1** (mencionado en la unidad B) va hacia la unidad F y allí está marcada con



under unit B) leads to unit F, and is then mentioned B1

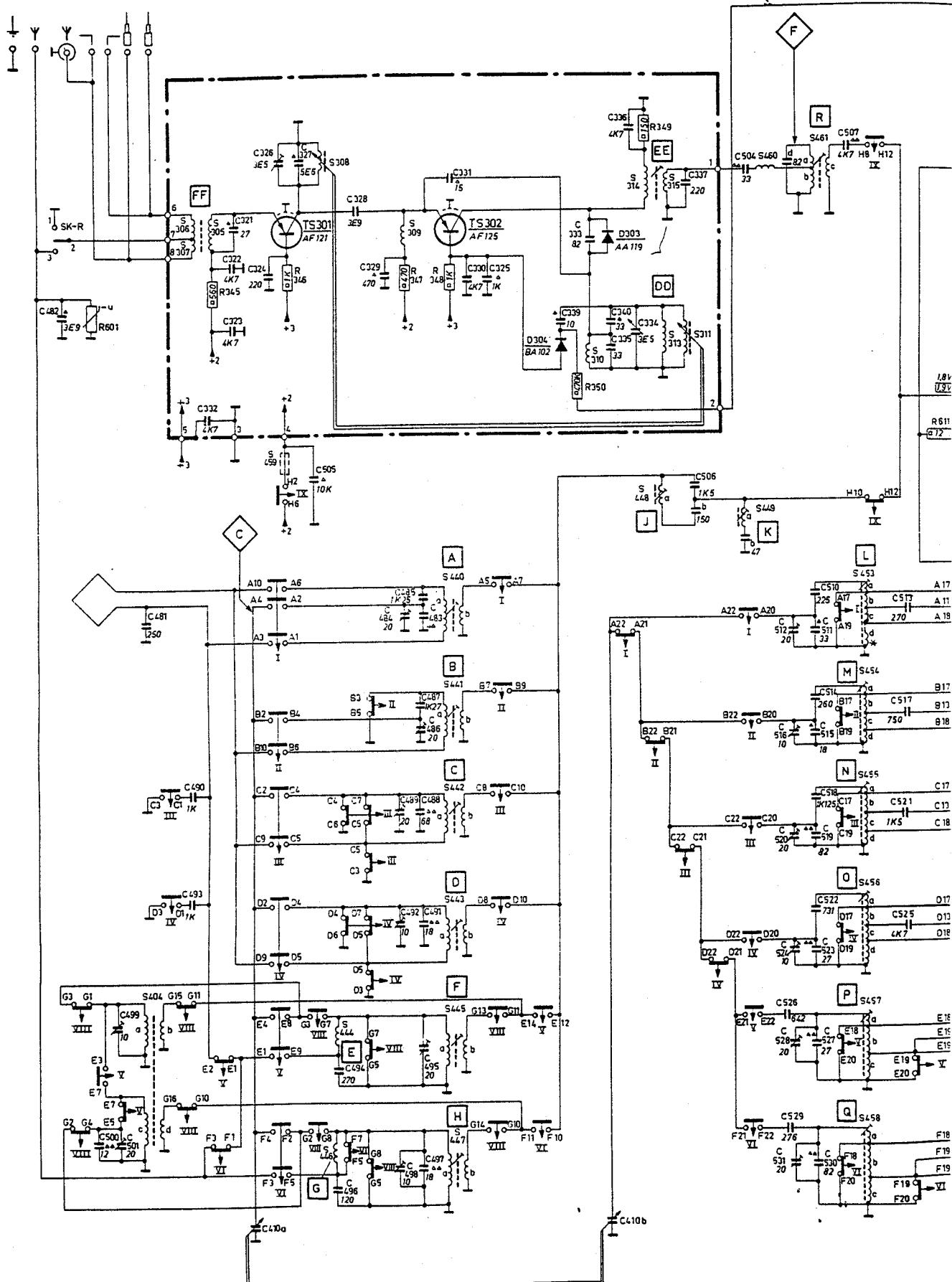
unit B) gaat naar unit F, en is daar **B1** genoemd

ous bloc B) va vers le bloc F, où il est indiqué sous B1

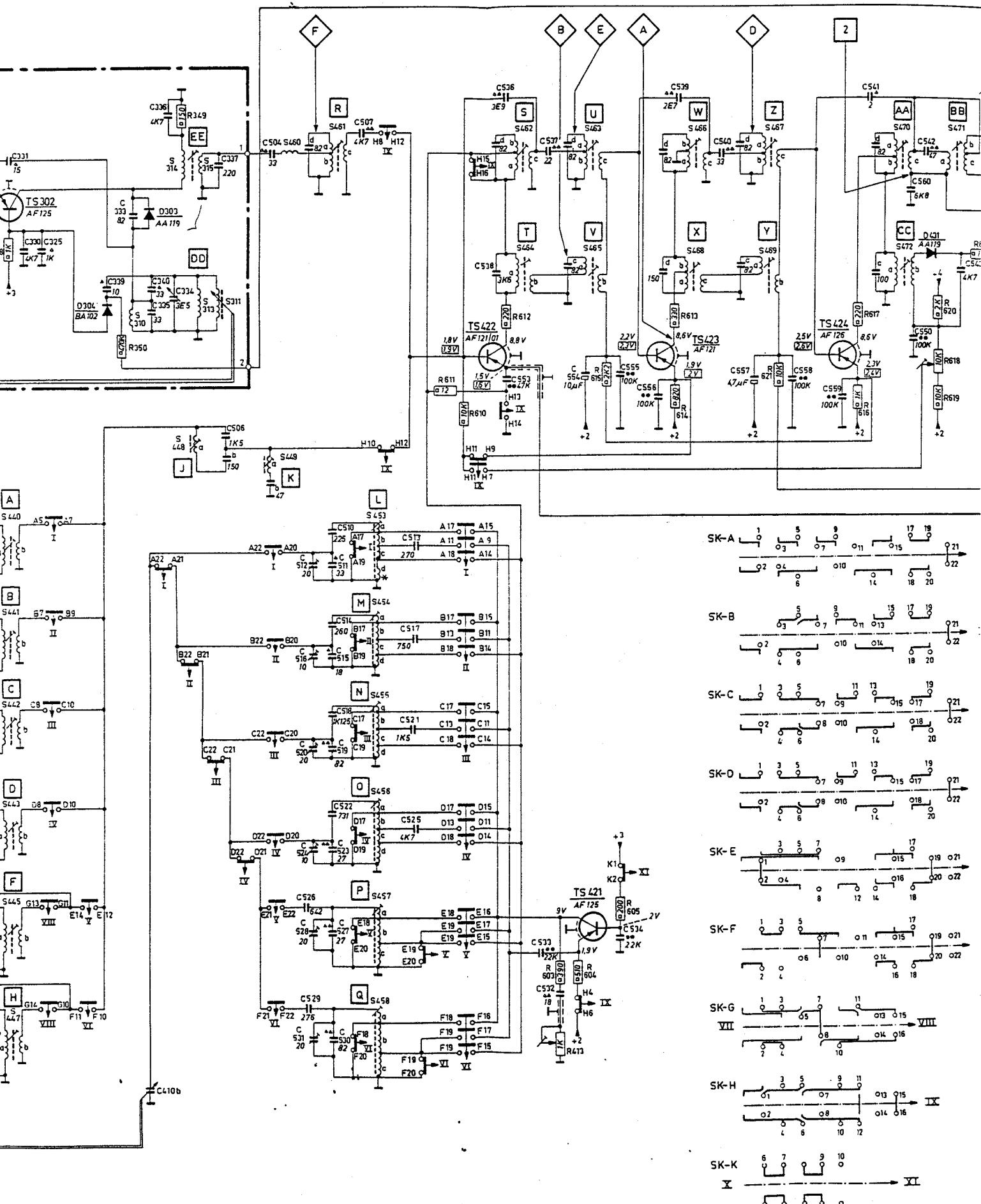
B genannt) führt nach Einheit F und wird dort als B1 bezeichnet

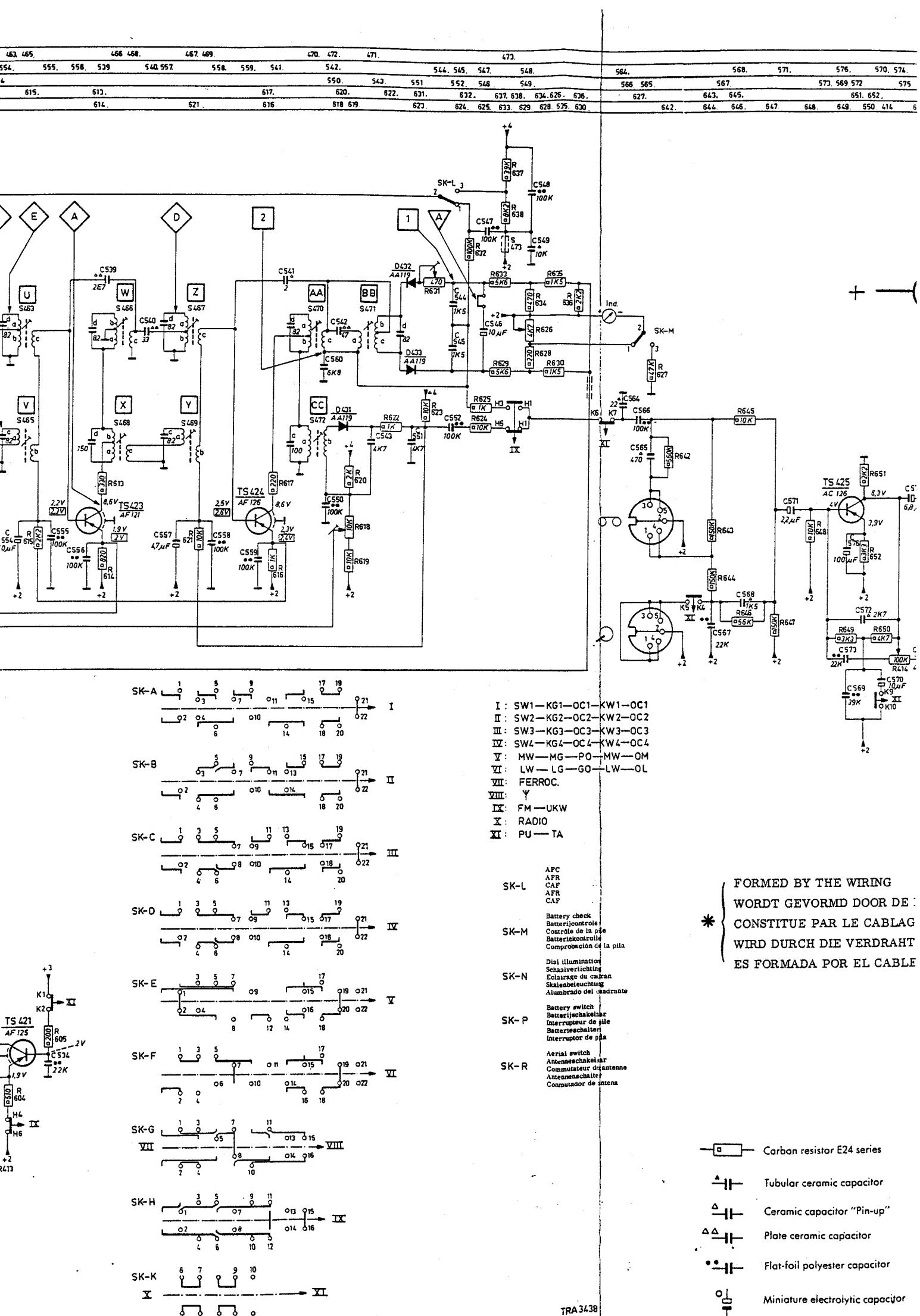
o en la unidad B) va hacia la unidad F y allí está marcada con B1

|   |              |              |       |                    |                |                     |                            |           |                      |                |      |           |
|---|--------------|--------------|-------|--------------------|----------------|---------------------|----------------------------|-----------|----------------------|----------------|------|-----------|
| S | 404.         | 305.308.307. | 459.  | 308.444.446.       | 309.           | 440-443. 445. 447.  |                            | 310.      | 448.314.313.315.311. | 449.450.       | 451. | 453+458.  |
| C | 482.         |              | 490.  | 332. 321+324. 326. | 327. 505. 328. | 329.                | 483+489. 495. 331.330.325. | 339. 333. | 340.335.336.334.     | 337. 508. 504. |      | 507.      |
| C |              |              |       |                    |                |                     |                            |           |                      |                |      | 510+511.  |
| C | 500.499.501. | 481. 493.    | 410a. |                    | 494. 496       | 491. 492. 498. 497. |                            | 410b.     |                      |                |      | 511. 512. |
| R | 601.         |              | 345.  | 346.               |                | 347.                | 348.                       | 350.      | 349.                 |                |      |           |



|                    |                               |           |               |           |                |           |           |           |      |
|--------------------|-------------------------------|-----------|---------------|-----------|----------------|-----------|-----------|-----------|------|
| 443. 445. 447.     | 310. 448. 314. 313. 315. 311. | 449. 460. | 461. 453+458. | 462. 454. | 463. 465.      | 466. 468. | 467. 469. | 470. 472. | 471. |
| 95. 331. 330. 325. | 339. 333. 340. 335. 336. 334. | 337. 506. | 504.          | 507.      | 530. 534. 553. | 537. 554. | 555. 558. | 558. 559. | 541. |
| 8 497.             | 410b.                         | 510+531.  |               |           | 533. 532.      | 534.      | 539.      | 540. 557. | 542. |
| 48.                | 350.                          | 349.      |               | 611. 610. | 612.           | 615.      | 613.      | 617.      | 550. |
|                    |                               |           |               |           | 603. 613.      | 604. 605. | 614.      | 621.      | 543. |
|                    |                               |           |               |           |                |           |           | 616.      | 620. |
|                    |                               |           |               |           |                |           |           |           | 62.  |





I : SW1—KG1—OC1—KW1—OC1  
 II : SW2—KG2—OC2—KW2—OC2  
 III : SW3—KG3—OC3—KW3—OC3  
 IV : SW4—KG4—OC4—KW4—OC4  
 V : MW—MG—PO—MW—OM  
 VI : LW—LG—GO—LW—OL  
 VII : FERROC.  
 VIII : Y  
 IX : FM—UKW  
 X : RADIO  
 XI : PUU—TA

SK-1

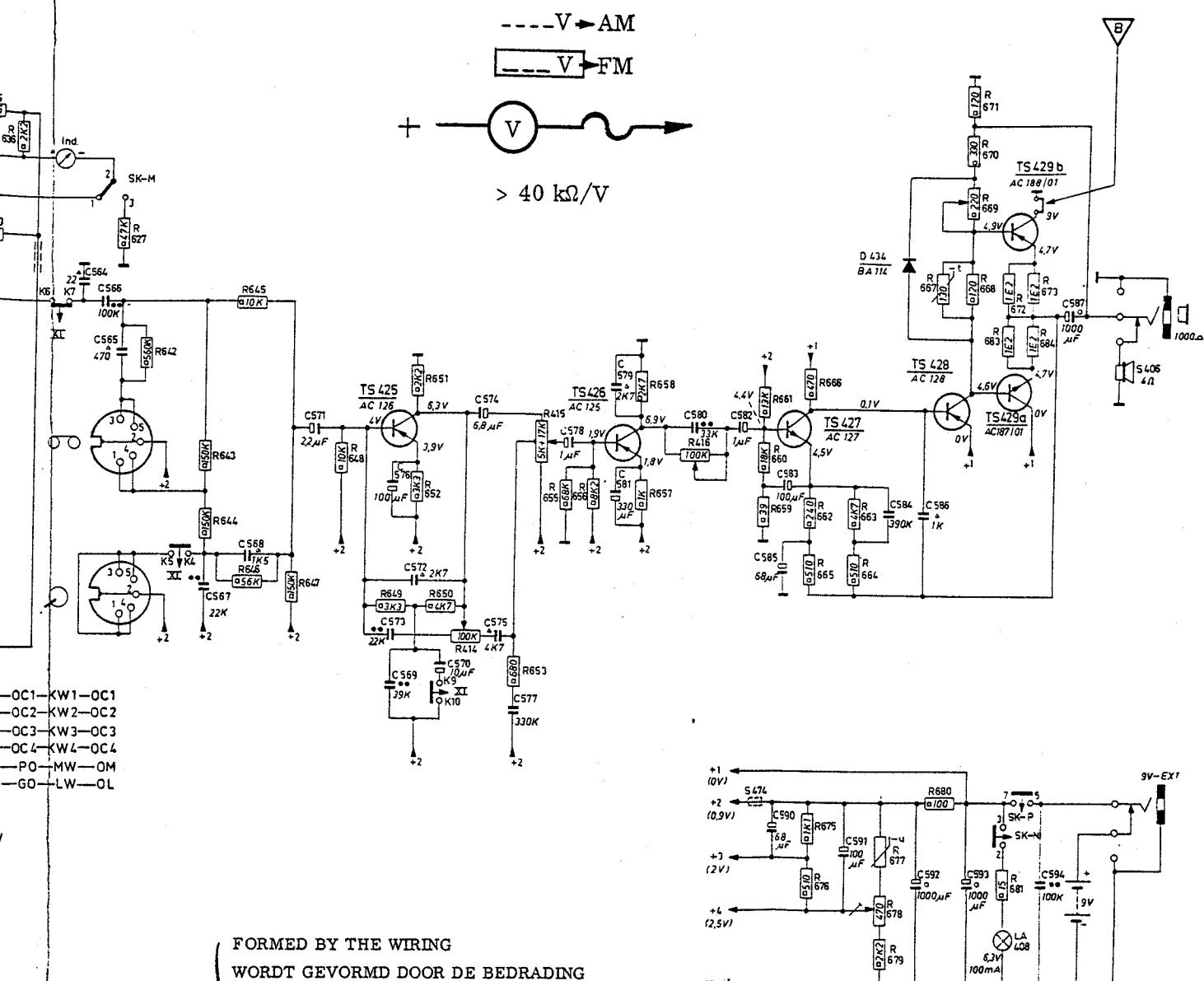
**SK-M**      Battery check  
Batterijcontrole  
Contrôle de la pile  
Batteriekontrolle  
Comprobación de la pila

|      |   |
|------|---|
| SK-N | Schaltverrichting<br>Eclairage du capteur<br>Skaleabeleuchtung<br>Alumbrado del cuadrante |
| SK-P | Battery switch<br>Batterienschakelbar<br>Interrupteur de pile                             |

SK-R Aerial switch  
Antenneschakelaar  
Commutateur de antenne  
Antennenschalter  
Commutador de antena

\* FORMED BY THE WIRING  
WORDT GEVORMD DOOR DE  
CONSTITUE PAR LE CABLAG  
WIRD DURCH DIE VERDRAHT  
ES FORMADA POR EL CABLE

-  Carbon resistor E24 series
-  Tubular ceramic capacitor
-  Ceramic capacitor "Pin-up"
-  Plate ceramic capacitor
-  Flat-foil polyester capacitor
-  Miniature electrolytic capacitor

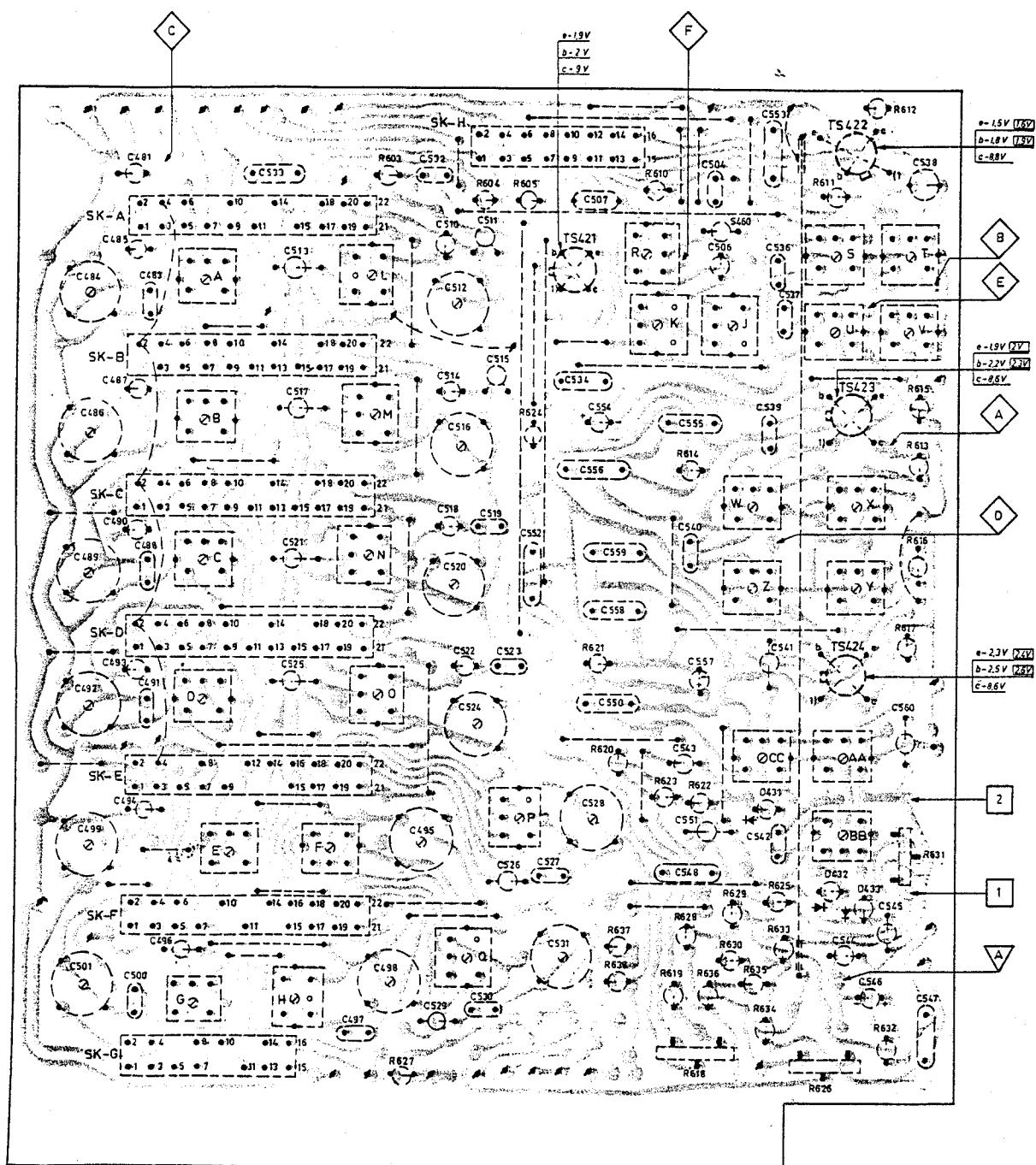


\* FORMED BY THE WIRING  
 WORDT GEVORMD DOOR DE BEDRADING  
 CONSTITUE PAR LE CABLAGE  
 WIRD DURCH DIE VERDRAHTUNG GEBILDET  
 ES FORMADA POR EL CABEADO

TRA 3/19

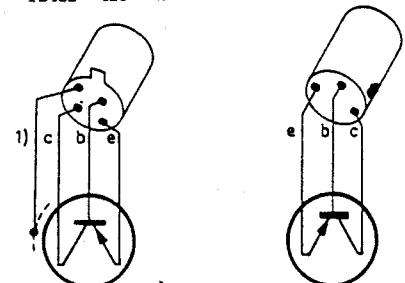
|  |                                  |         |    |
|--|----------------------------------|---------|----|
|  | Carbon resistor E24 series       | 0.125 W | 5% |
|  | Tubular ceramic capacitor        | 500 V   |    |
|  | Ceramic capacitor "Pin-up"       | 500 V   |    |
|  | Plate ceramic capacitor          |         |    |
|  | Flat-foil polyester capacitor    |         |    |
|  | Miniature electrolytic capacitor |         |    |

| S | A          | B   | C   | D   | E | H   | F   | L   | M   | N | O   | P       | R       | K       | L   | M   | J   | W   | Z   | CC  | S   | T   | U   | V       | X   | Y   | AA  | BB  |     |     |     |     |     |     |     |
|---|------------|-----|-----|-----|---|-----|-----|-----|-----|---|-----|---------|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| C | 484-490    | 481 | 483 | 494 |   | 533 | 513 | 517 | 521 |   | 532 | 510-512 | 514-516 | 518-520 | 552 | 574 | 556 | 557 | 554 | 555 | 556 | 550 | 504 | 553     | 537 | 536 | 538 |     |     |     |     |     |     |     |     |
| C | 492499-501 | 493 | 491 | 496 |   | 525 | 497 |     | 498 |   | 495 | 529     | 522     | 524     | 530 | 526 | 527 | 531 | 528 | 558 | 559 | 550 | 543 | 548     | 557 | 551 | 539 | 541 | 542 | 544 | 546 | 545 | 560 | 547 |     |
| R |            |     |     |     |   |     |     |     |     |   | 503 |         | 604     | 605     |     | 620 |     | 610 | 614 | 623 | 622 | 630 | 625 | 623-625 | 611 | 612 | 617 | 615 | 613 | 616 |     |     |     |     |     |
| R |            |     |     |     |   |     |     |     |     |   |     | 627     |         | 524     | 521 |     | 637 | 638 | 636 | 638 | 619 | 620 | 629 |         | 626 |     |     |     |     |     |     |     |     | 622 | 631 |

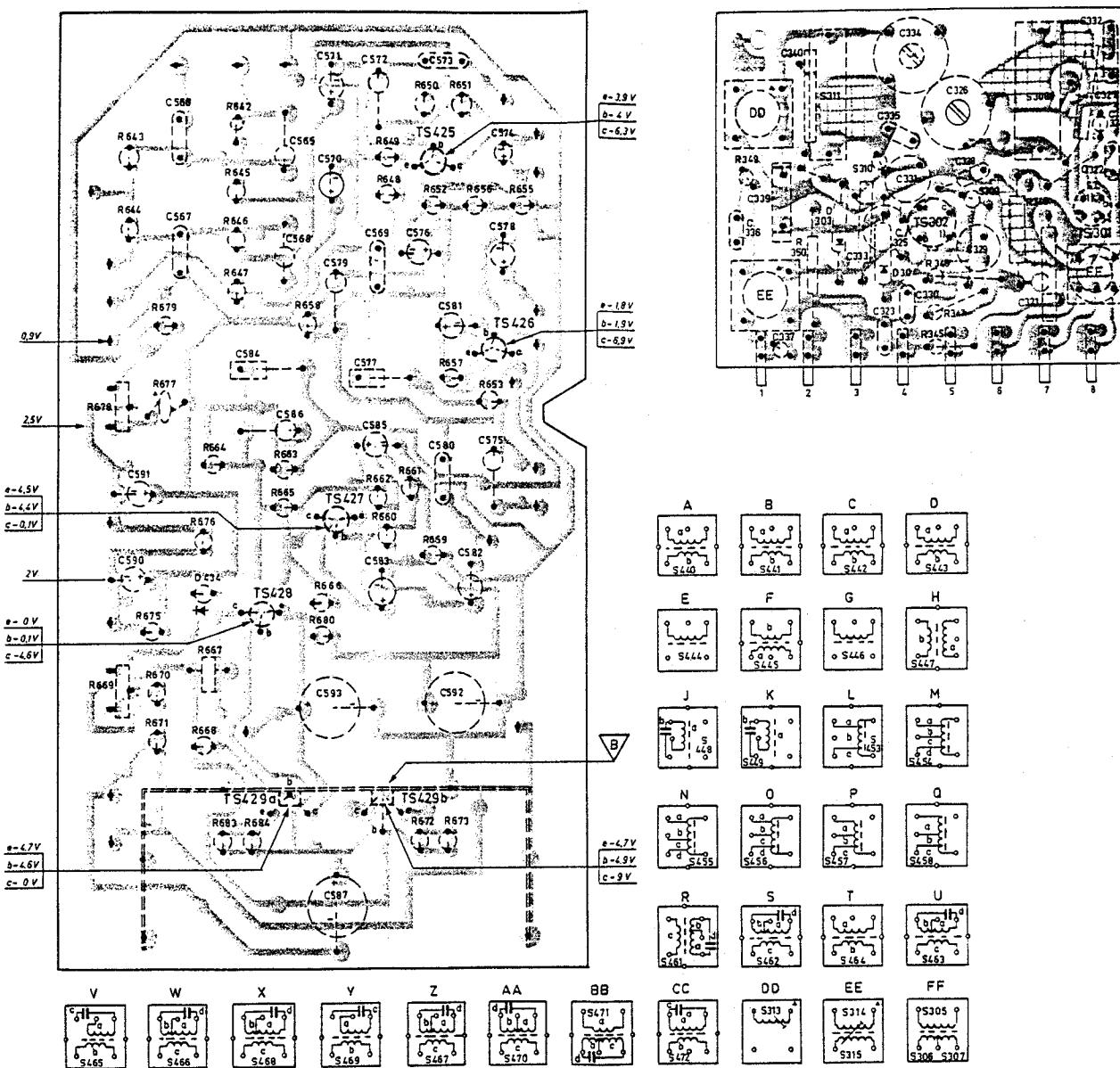


TS301 - 302 - 421  
TS422 - 423 - 424

TS425 - 426 - 428



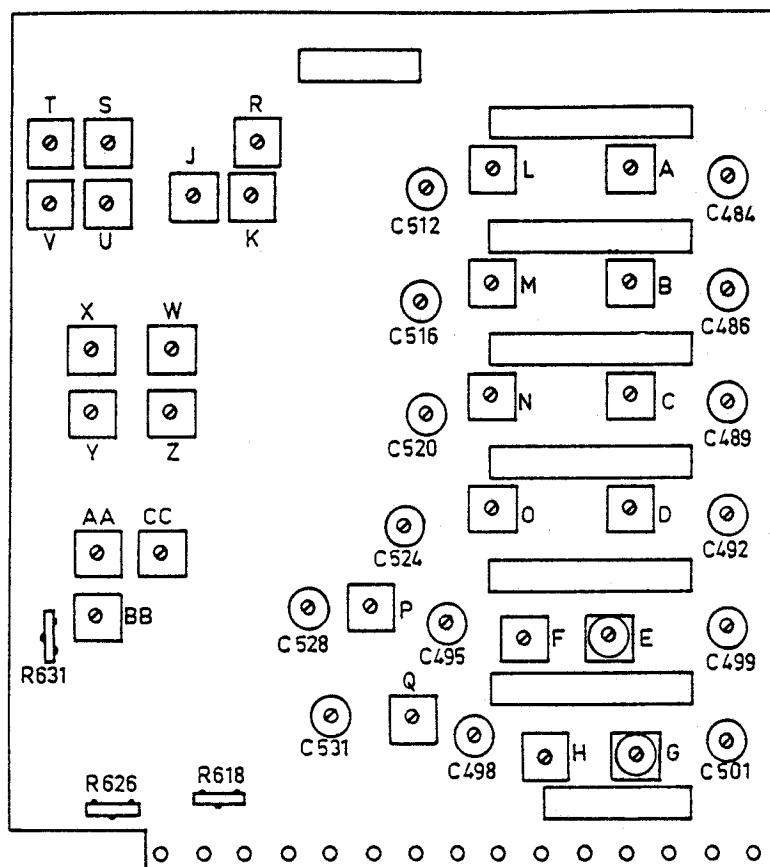
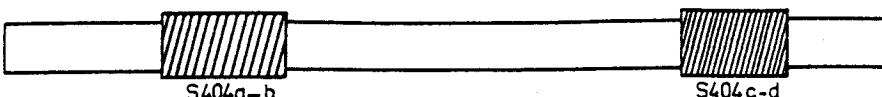
| 566 567                             | 584                                     | 565 566 | 570 571 579 572 580 577                 | 578 575 | 336 | 337 339 340 | 333 323 325 325 321 334 330 | 326 328 329 | 321 | 327 324 322 322 | S |
|-------------------------------------|---|---------|---|---------|-----|-------------|-----------------------------|-------------|-----|-----------------|---|
| 590 591                             |   | 586 593 | 587 582 589 585 573 576 581 592 574 582 |         |     |             |                             |             |     |                 | C |
| 643 644 679 677 661 678 646 664 642 | 665 667                                 |         | 662 680 649 681 650 651 659             |         | 349 | 350         | 349 345 347                 | 348         |     |                 | R |
| 678 669 671 675 670                 | 668 647 683 645 684 658 680 666 648 652 |         | 672 673 657 656 653 655                 |         |     |             |                             |             |     |                 | R |



|            | Push button           | Signal                    | Apply to | Trimming point | Adjust     | Indication  |  |
|------------|-----------------------|---------------------------|----------|----------------|------------|-------------|--|
| IF<br>(AM) | MW + $\Psi$ (SK-E+G)  | ①<br>470 kHz<br>via 33 pF | Ⓐ        | Minimum cap.   | CC         | Max. output |  |
|            |                       |                           | Ⓑ        |                | Y, X       |             |  |
|            |                       |                           | Ⓒ        |                | V, T       |             |  |
|            |                       |                           | Ⓓ        |                | K, J       |             |  |
| RF<br>(AM) | LW (SK-F)             | 157 kHz                   | ②        | A              | Q, S404c/d | Max. output |  |
|            | MW (SK-E)             | 550 kHz                   |          | A              | P, S404a/b |             |  |
|            | SW4 (SK-D)            | 1,66 MHz                  | ③        | A              | Q, D       |             |  |
|            | SW3 (SK-C)            | 4,32 MHz                  |          | A              | N, C       |             |  |
|            | SW2 (SK-B)            | 8,06 MHz                  |          | A              | M, B       |             |  |
|            | SW1 + $\Psi$ (SK-A+G) | 16,1 MHz                  | ④        | A              | L, A       |             |  |
|            | SW1 + $\Psi$ (SK-A+G) | 26 MHz                    |          | B              | C512, C484 |             |  |
|            | SW2 (SK-B)            | 15 MHz                    | ③        | B              | C516, C486 |             |  |
|            | SW3 (SK-C)            | 7,83 MHz                  |          | B              | C520, C489 |             |  |
|            | SW4 (SK-D)            | 3,94 MHz                  |          | B              | C524, C492 |             |  |
|            | MW (SK-E)             | 1500 kHz                  | ②        | B              | C528, C499 |             |  |
|            | LW (SK-F)             | 393 kHz                   |          | B              | C531, C501 |             |  |
|            | LW + $\Psi$ (SK-F+G)  | 157 kHz                   | ④        | Tune in        | H          |             |  |
|            | MW + $\Psi$ (SK-E+G)  | 550 kHz                   |          |                | F          |             |  |
|            | MW + $\Psi$ (SK-E+G)  | 1500 kHz                  |          |                | C495       |             |  |
|            | LW + $\Psi$ (SK-F+G)  | 393 kHz                   |          |                | C498       |             |  |
| IF<br>(FM) | FM+AFC(SK-H+L)        | ⑤<br>10,7 MHz             | Ⓓ        | C              | AA         | ⑥           |  |
|            |                       |                           | Ⓔ        |                | W, Z       |             |  |
|            |                       |                           | Ⓕ        |                | S, U       |             |  |
|            |                       | 10,7 MHz<br>⑤<br>⑧        | ⑦        |                | EE, R      |             |  |
|            |                       |                           |          |                | BB         |             |  |
|            |                       |                           |          |                | DD         |             |  |
| RF<br>(FM) | FM+AFC(SK-H+L)        | 88 MHz                    | ⑦        | Tune in        | C334       | Max. output |  |
|            |                       | 108 MHz                   |          |                | C326       |             |  |
|            |                       | 96 MHz                    |          |                |            |             |  |



- ① Set the volume control to maximum. The signal applied should not be too strong in order to avoid overmodulation.
- ② Apply the signal via the coupling-coil of the ferroceptor.
- ③ Apply the signal via the coupling-coil of the frame aerial.
- ④ Apply the signal via the outside aerial ④.
- ⑤ The signal applied is FM-modulated (50 Hz) with a sweep of 200 kHz. Open bridge ④. Connect an oscilloscope via 100 kΩ to ①. Damp S470c by means of a 1500 Ω resistor.
- ⑥ Adjust for maximum height and symmetry of the band-pass curve.
- ⑦ Apply the signal to the FM outside aerial — — —
- ⑧ Apply the signal as under ⑤. Close bridge ④. Connect the oscilloscope via 100 kΩ to ②. Remove the damping resistor from S470c.
- ⑨ Adjust for maximum linearity and symmetry of the S-curve.



TRA 3434

Adjustment of the AM rejection

Apply a frequency modulated (50 Hz) signal of 10,7 MHz with a 200 kHz sweep to the FM outside aerial. This signal should also be AM modulated with 1 kHz.

Connect an oscilloscope to point [2] via 100 kΩ. Adjust for maximum AM rejection with R631, i.e. adjust the S-curve so that its linearity is maximum and passes through zero.

Adjustment of the quiescent current

Turn volume control R415 fully anti-clockwise. Open bridge ▽ and connect an mA-meter across this bridge. Now close bridge ▽.

Checking the battery-voltage indication

Connect the set to a 4.5 V supply voltage.

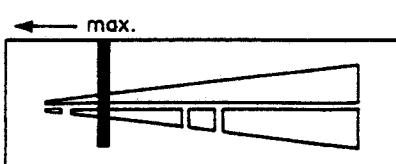
Depress SK-M. Then the pointer of the indicator (Ind.) should be at the transition of the grey and the black section.

Adjustment of the indicator

Set the receiver to position MW, outside aerial by depressing SK-E and SK-G. Adjust the indicator (Ind.) to maximum deflection of the pointer by means of R626, without applying a signal.

Set the receiver to position FM by depressing SK-H. (Consequently, SK-G is depressed also in this case).

Now the indicator (Ind.) is to be adjusted for maximum deflection of the pointer with R618, without applying a signal.



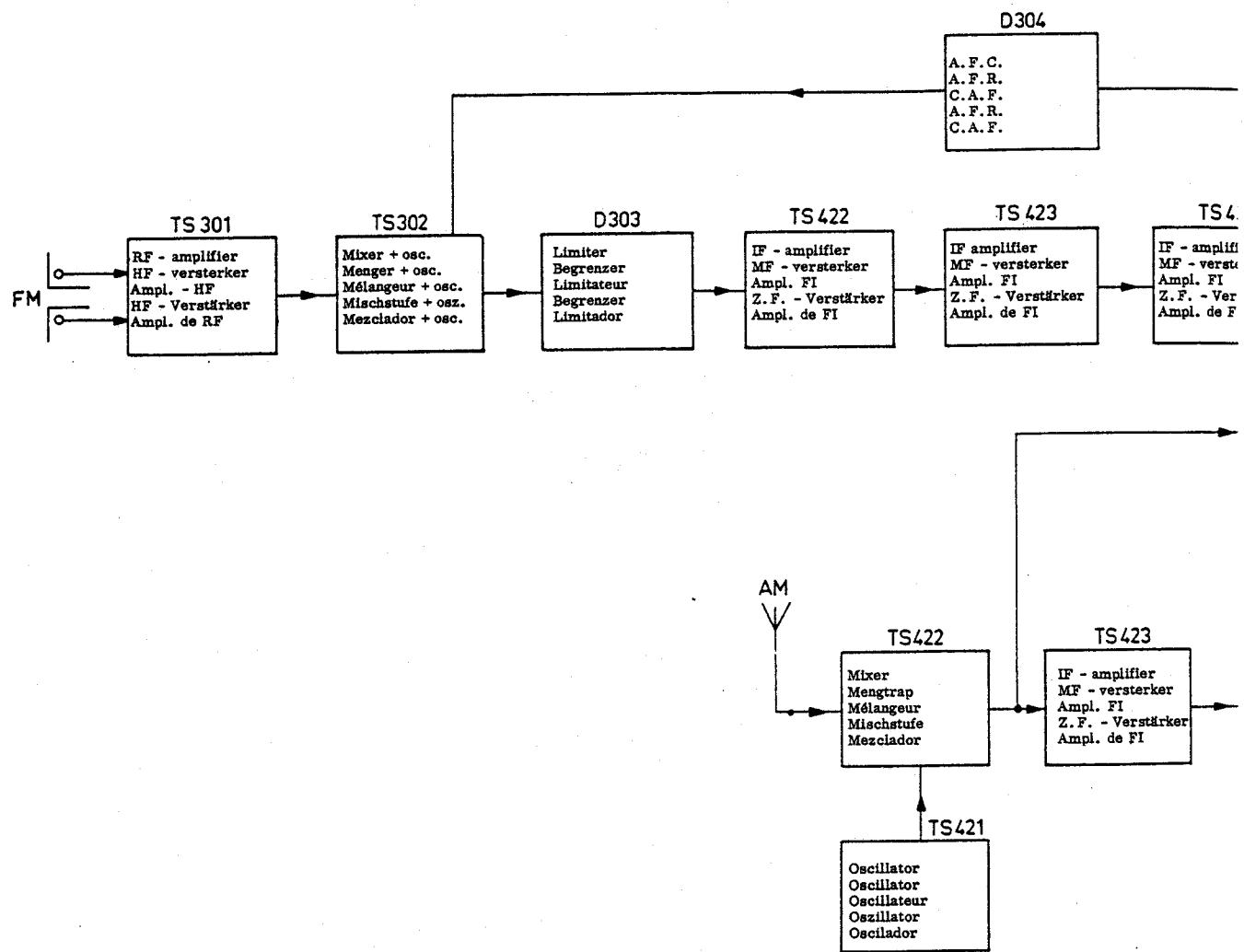
TRA 3485

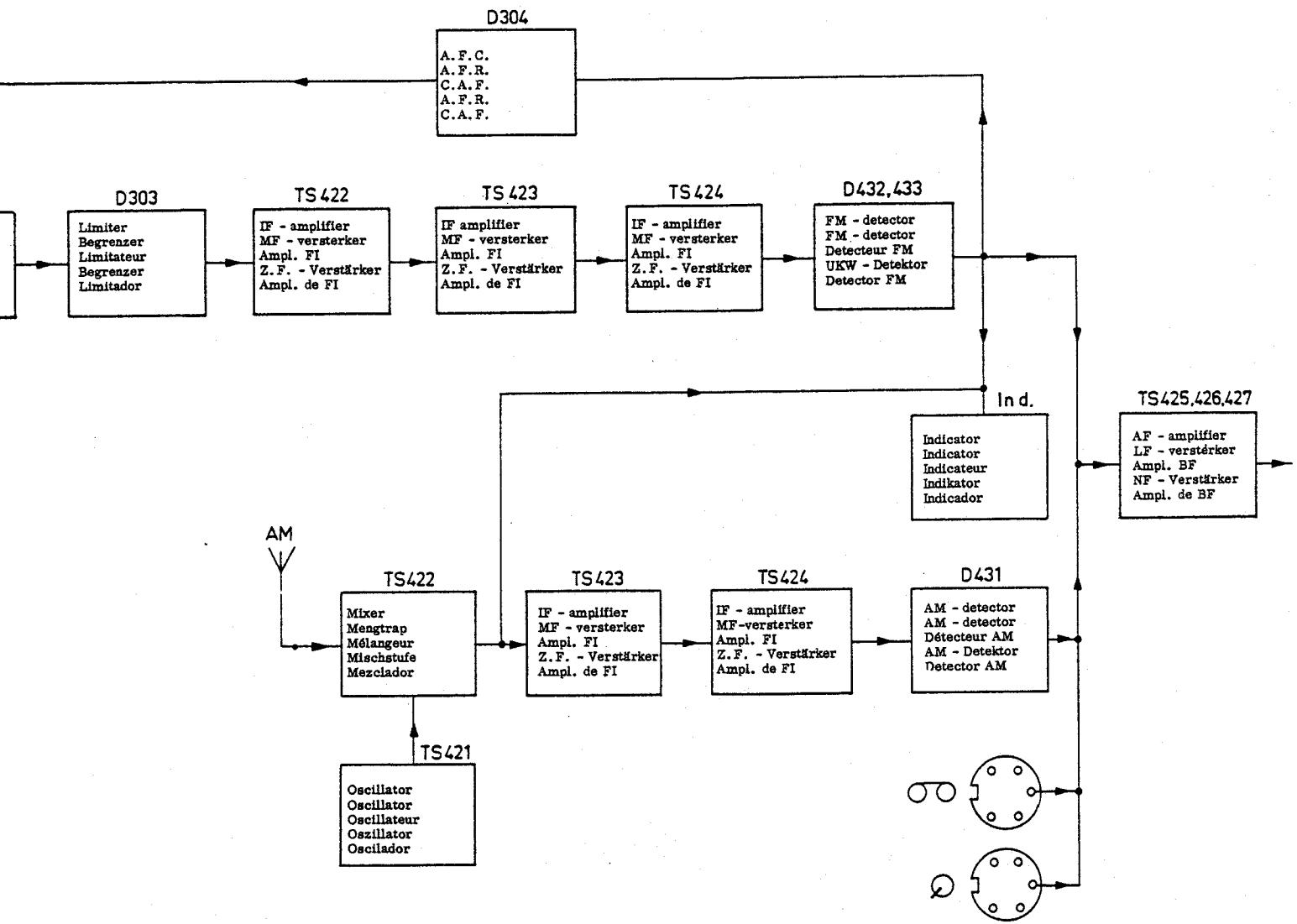
Voltage adjustment C591, C590

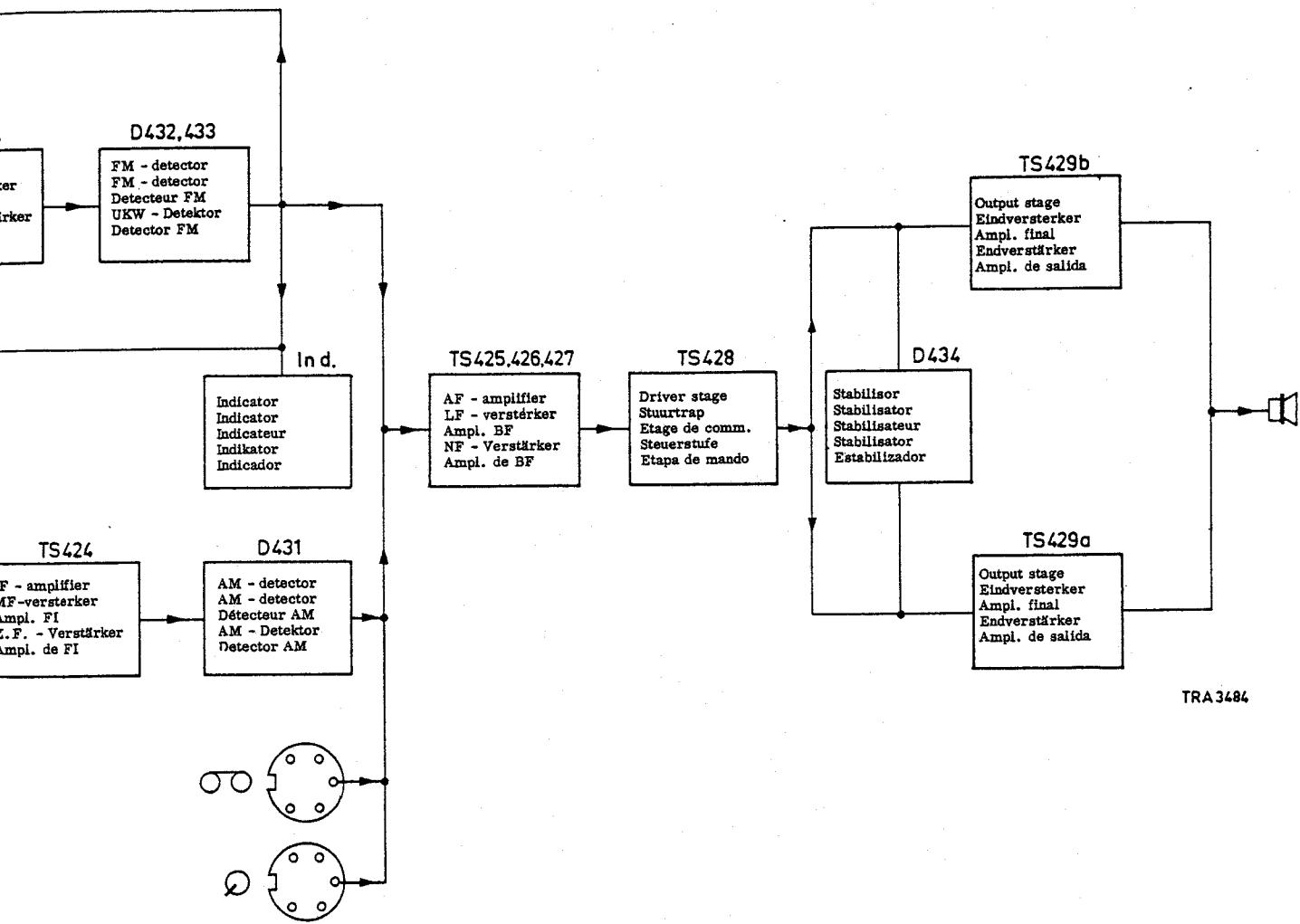
Connect a voltmeter across C591.

Adjust for a 1,6 V voltage across C591 with R678.

The voltage across C590 should now be about 1.1 V.







TRA 3484

CS21894

- S -



- C -



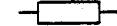
abcd

|      |                |                    |      |                |              |         |
|------|----------------|--------------------|------|----------------|--------------|---------|
| S404 | 4822 158 60075 | Ferroceptor, MW/LW | C522 | 4822 121 50111 | 731 pF       | 1 %     |
| S406 | 4822 240 20039 | Loudspeaker        | C524 | 4822 125 50026 | 10 pF        | trimmer |
| S440 | 4822 156 40092 | 39--               | C525 | 4822 121 50094 | 4700 pF      | 5 %     |
| S441 | 4822 156 40093 | 29--               | C526 | 4822 121 50429 | 642 pF       | 1 %     |
| S442 | 4822 156 40094 | 40--               | C528 | 4822 125 50029 | 20 pF        | trimmer |
| S443 | 4822 156 40095 | 19--               | C529 | 4822 121 50431 | 276 pF       | 1 %     |
| S444 | 4822 156 20197 | 89--               | C531 | 4822 125 50029 | 20 pF        | trimmer |
| S445 | 4822 156 40096 | 09--               | C538 | 4822 121 50088 | 3600 pF      | 2,5 %   |
| S446 | 4822 156 20198 | 99--               | C543 | 4822 121 50094 | 4700 pF      | 5 %     |
| S447 | 4822 156 40097 | 98--               | C544 | 4822 121 50432 | 1500 pF      | 10 %    |
| S448 | 4822 153 10102 | 001-               | C545 | 4822 121 50432 | 1500 pF      | 10 %    |
| S449 | 4822 153 10081 | 24--               | C546 | 4822 124 20355 | 10 $\mu$ F   | 25 V    |
| S453 | 4822 156 10146 | 69--               | C551 | 4822 121 50094 | 4700 pF      | 5 %     |
| S454 | 4822 156 10147 | 59--               | C554 | 4822 124 20355 | 10 $\mu$ F   | 25 V    |
| S455 | 4822 156 10148 | 101-               | C557 | 4822 124 20346 | 4,7 $\mu$ F  | 63 V    |
| S456 | 4822 156 10149 | 201-               | C560 | 4822 121 50096 | 6800 pF      | 5 %     |
| S457 | 4822 156 10151 | 301-               | C566 | 4822 124 20341 | 1 $\mu$ F    | 63 V    |
| S458 | 4822 156 10152 | 49--               | C570 | 4822 124 20353 | 10 $\mu$ F   | 63 V    |
| S459 | 4822 526 10024 |                    | C571 | 4822 124 20343 | 2,2 $\mu$ F  | 63 V    |
| S460 | 4822 157 50045 |                    | C574 | 4822 124 20351 | 6,8 $\mu$ F  | 40 V    |
| S461 | 4822 153 50029 | 16--               | C576 | 4822 124 20383 | 1000 $\mu$ F | 10 V    |
| S462 | 4822 153 50029 | 16--               | C577 | 4822 121 40092 | 0,33 $\mu$ F |         |
| S463 | 4822 153 50029 | 16--               | C578 | 4822 124 20341 | 1 $\mu$ F    | 63 V    |
| S464 | 4822 156 40103 | 13--               | C581 | 4822 124 20401 | 330 $\mu$ F  | 4 V     |
| S465 | 4822 153 10082 | 23--               | C582 | 4822 124 20341 | 1 $\mu$ F    | 63 V    |
| S466 | 4822 153 50029 | 16--               | C583 | 4822 124 20383 | 100 $\mu$ F  | 10 V    |
| S467 | 4822 153 50029 | 16--               | C584 | 4822 121 40098 | 0,39 $\mu$ F |         |
| S468 | 4822 153 10083 | 33--               | C585 | 4822 124 20377 | 68 $\mu$ F   | 16 V    |
| S469 | 4822 153 10082 | 23--               | C590 | 4822 124 20377 | 68 $\mu$ F   | 16 V    |
| S470 | 4822 153 50031 | 95--               | C591 | 4822 124 20383 | 100 $\mu$ F  | 10 V    |
| S471 | 4822 153 50032 | 06--               |      |                |              |         |
| S472 | 4822 153 10084 | 43--               |      |                |              |         |
| S473 | 4822 526 10024 |                    |      |                |              |         |
| S474 | 4822 526 10024 |                    |      |                |              |         |

- C -



- R -



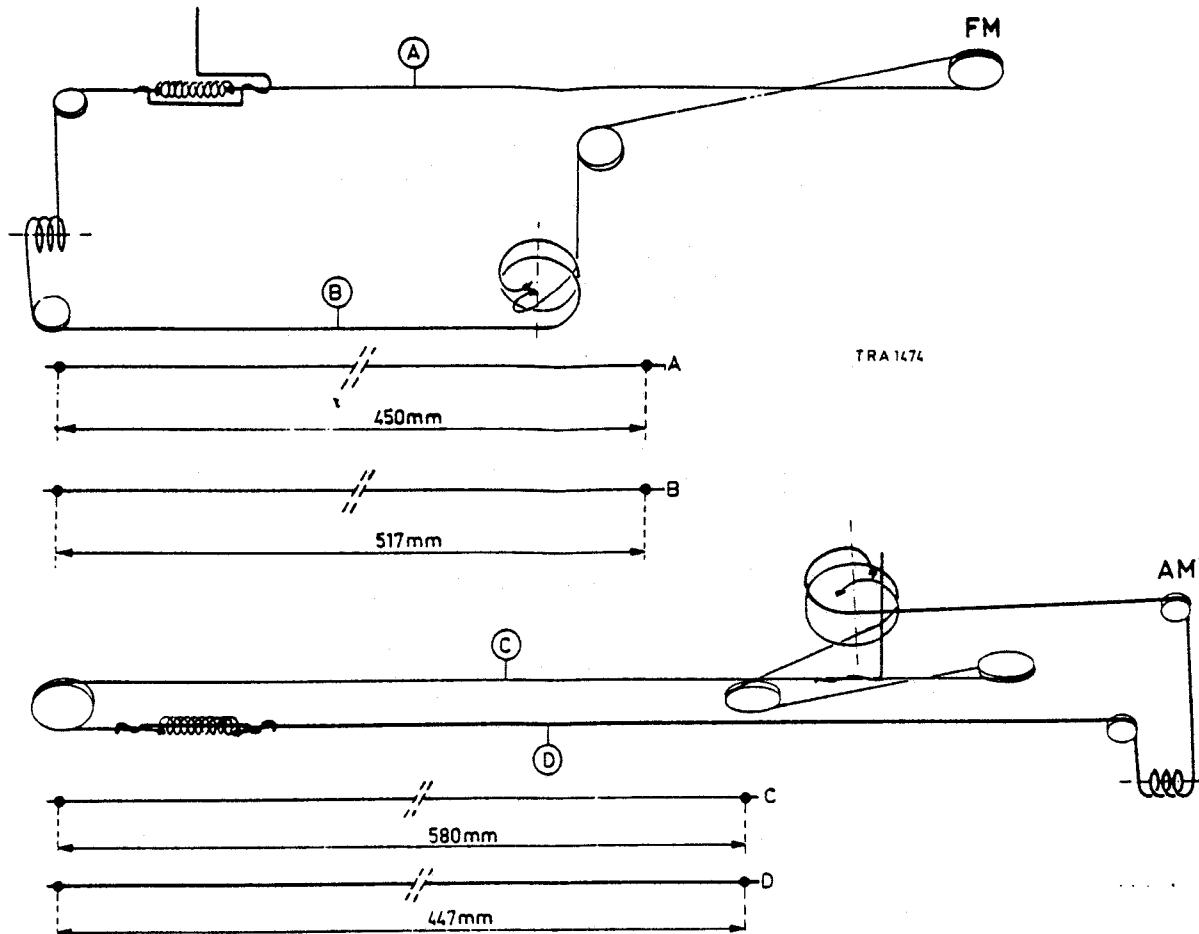
|      |                |                    |        |                |                             |                    |
|------|----------------|--------------------|--------|----------------|-----------------------------|--------------------|
| C410 | 4822 125 20021 | Variable capacitor | R413   | 4822 101 30053 | 1 k $\Omega$                | Potentiometer      |
| C481 | 4822 121 50036 | 250 pF             | R414   | 4822 101 30039 | 100 k $\Omega$              | Potentiometer      |
| C484 | 4822 125 50029 | 20 pF              | R416   | 4822 101 30074 | 5 k $\Omega$ +17 k $\Omega$ | Potentiometer      |
| C485 | 4822 121 50072 | 1250 pF            | R601   | 4822 116 20003 | VDR                         |                    |
| C486 | 4822 125 50029 | 20 pF              | R618   | 4822 100 10024 | 10 k $\Omega$               | Adj. potentiometer |
| C487 | 4822 121 50423 | 1270 pF            | R626   | 4822 100 10025 | 4700 $\Omega$               | Adj. potentiometer |
| C489 | 4822 125 50029 | 20 pF              | R631   | 4822 100 10023 | 470 $\Omega$                | Adj. potentiometer |
| C490 | 4822 121 50424 | 1000 pF            | R667   | 4822 116 30016 | 130 $\Omega$                | NTC                |
| C492 | 4822 125 50026 | 10 pF              | R669   | 4822 100 10026 | 220 $\Omega$                | Adj. potentiometer |
| C493 | 4822 121 50424 | 1000 pF            | R672   | 4822 116 60004 | 1,2 $\Omega$                | 0,125 W            |
| C494 | 4822 121 50039 | 270 pF             | R673   | 4822 116 60004 | 1,2 $\Omega$                | 0,125 W            |
| C495 | 4822 125 50029 | 20 pF              | R677   | 4822 116 20094 | VDR                         |                    |
| C496 | 4822 121 50381 | 120 pF             | R678   | 4822 100 10023 | 470 $\Omega$                | Adj. potentiometer |
| C498 | 4822 125 50026 | 10 pF              | R683   | 4822 116 60004 | 1,2 $\Omega$                | 0,125 W            |
| C499 | 4822 125 50026 | 10 pF              | R684   | 4822 116 60004 | 1,2 $\Omega$                | 0,125 W            |
| C501 | 4822 125 50029 | 20 pF              |        |                |                             |                    |
| C506 | 4822 121 50432 | 1500 pF            | TS301  | 4822 130 40385 | D303                        | 4822 130 40229     |
| C510 | 4822 121 50426 | 225 pF             | TS302  | 4822 130 40254 | D304                        | 4822 130 30272     |
| C512 | 4822 125 50029 | 20 pF              | TS421  | 4822 130 40254 | D431                        | 4822 130 40229     |
| C513 | 4822 121 50039 | 270 pF             | TS422  | 4822 130 40384 | D432                        | 4822 130 30312     |
| C514 | 4822 121 50037 | 260 pF             | TS423  | 4822 130 40385 | D433                        |                    |
| C516 | 4822 125 50026 | 10 pF              | TS424  | 4822 130 40252 | D434                        | 4822 130 30189     |
| C517 | 4822 121 50427 | 750 pF             | TS425  | 4822 130 40236 |                             |                    |
| C518 | 4822 121 50071 | 1125 pF            | TS426  | 4822 130 40235 |                             |                    |
| C520 | 4822 125 50029 | 20 pF              | TS427  | 4822 130 40096 |                             |                    |
| C521 | 4822 121 50432 | 1500 pF            | TS428  | 4822 130 40095 |                             |                    |
|      |                | 10 %               | TS429a | 4822 130 40319 |                             |                    |
|      |                |                    | TS429b |                |                             |                    |

- TS -



- D -





#### Cabinet

|                                  |                |
|----------------------------------|----------------|
| Ornamental front                 | 4822 423 50075 |
| Cover for scale                  | 4822 423 50158 |
| Side panel (right)               | 4822 423 20037 |
| Side panel (left)                | 4822 423 20038 |
| Bottom                           | 4822 423 20036 |
| Rear cover                       | 4822 422 50016 |
| Slide in rear cover for locking  | 4822 411 60053 |
| Handle                           | 4822 498 40267 |
| Screw fixing handle              | 4822 502 10411 |
| Philite disc fixing foot         | 4822 532 60033 |
| Leg (metal)                      | 4822 462 10023 |
| Buffer for leg                   | 4822 462 40062 |
| Frame aerial                     | 4822 303 40031 |
| Hinge for cover and frame-aerial | 4822 417 10041 |
| Plate fixing hinge               | 4822 691 10027 |
| Telescopic aerial                | 4822 303 30021 |
| Screw fixing aerial              | 4822 502 10412 |
| Scale assembly                   | 4822 334 50071 |
| Bracket fix. frame aerial        | 4822 404 10038 |

#### Chassis

|  |                |
|--|----------------|
| Pulley ( 9,5 mm)                         | 4822 528 80087 |
| Pulley (17,5 mm)                         | 4822 528 80086 |
| Drum in driving                          | 4822 528 40052 |
| On-off indicator                         | 4822 404 10029 |
| Connection bracket for slide of SK-H     | 4822 404 10021 |
| Connection bracket for slide of SK-G     | 4822 404 20024 |
| Connection bracket for slide of SK-A ÷ F | 4822 404 10025 |
| Speed fix on slide of SK-A ÷ H           | 4822 492 60264 |
| Drive cord                               | 4822 321 30101 |
| Connection strip with sockets            | 4822 267 20109 |
| Scale-lamp holder                        | 4822 255 10007 |

#### Battery holder

|                     |                |
|---------------------|----------------|
| Assembly complete   | 4822 256 60022 |
| Spiral spring-large | 4822 492 50322 |
| Spiral spring-small | 4822 492 50375 |

#### Sockets

|                          |                |
|--------------------------|----------------|
| Aerial                   | 4822 268 20002 |
| PU + Recorder            | 4822 267 40039 |
| Earphone                 | 4822 420 40041 |
| Nut fix. socket earphone | 4822 505 10043 |
| Car aerial               | 4822 267 30086 |
| Ext. supply              | 4822 265 20051 |

#### Switch assemblies

|                               |                |
|-------------------------------|----------------|
| Push button unit (SK-L, M, N) | 4822 276 30062 |
| Push button unit, wave ranges | 4822 276 80014 |
| SK-A (SW1)                    | 4822 277 30099 |
| SK-B (SW2)                    | 4822 277 30101 |
| SK-C-D (SW3-SW4)              | 4822 277 30102 |
| SK-E (MW)                     | 4822 277 30103 |
| SK-F (LW)                     | 4822 277 30104 |
| SK-G (aerial)                 | 4822 277 30105 |
| SK-H (FM)                     | 4822 277 30098 |
| Slide of SK-A                 | 4822 278 20107 |
| Slide of SK-B                 | 4822 278 20108 |
| Slide of SK-C-D               | 4822 278 20109 |
| Slide of SK-E                 | 4822 278 20111 |
| Slide of SK-F                 | 4822 278 20112 |
| Slide of SK-G                 | 4822 278 20113 |
| Slide of SK-H                 | 4822 278 20071 |
| Contact strip (SK-L, M, N)    | 4822 278 80069 |
| Contact slide (SK-L)          | 4822 278 30029 |
| Contact slide (SK-M, N)       | 4822 278 30006 |
| Contact strip (SK-K, P)       | 4822 278 50029 |
| Contact slide (SK-K, P)       | 4822 278 30018 |

#### Push-buttons

|                                 |                |
|---------------------------------|----------------|
| AFC-battery check - scale light | 4822 410 20136 |
| PU-off-wave ranges              | 4822 410 20297 |

#### Knobs

|                             |                |
|-----------------------------|----------------|
| Tuning FM, AM               | 4822 413 50679 |
| Volume-high-low-fine tuning | 4822 413 30384 |
| FM tuner                    | 4822 210 30003 |
| Tuning indicator            | 4822 347 10004 |
| Lamp (LA-408)               | 4822 134 40005 |